

Environmental Protection Agency

§ 421.262

the production of precious metals at secondary precious metals facilities.

§ 421.261 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *precious metals* shall mean gold, platinum, palladium, rhodium, iridium, osmium, and ruthenium.

(c) The term *Combined Metals*, shall mean the total of gold, platinum and palladium.

[50 FR 38365, Sept. 20, 1985, as amended at 55 FR 31705, Aug. 3, 1990]

§ 421.262 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Furnace wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, incinerated or smelted	
Copper	136.400	71.800
Cyanide (total)	20.820	8.616
Zinc	104.800	43.800
Ammonia (as N)	9,571.000	4,207.000
Combined metals	21.54	.....
Total suspended solids	2,944.000	1,400.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Raw material granulation.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metal in the granulated raw material	
Copper	12.050	6.340
Cyanide (total)	1.839	0.761
Zinc	9.256	3.867
Ammonia (as N)	845.100	371.500
Combined metals	1.902	.....
Total suspended solids	259.900	123.600
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Spent plating solutions.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/liter of spent plating solution used as a raw material	
Copper	1.900	1.000
Cyanide (total)	0.290	0.120
Zinc	1.460	0.610
Ammonia (as N)	133.300	58.600
Combined metals	0.300	.....
Total suspended solids	41.000	19.500
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Spent cyanide stripping solutions.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold produced by cyanide stripping	
Copper	7.030	3.700
Cyanide (total)	1.073	0.444
Zinc	5.402	2.257
Ammonia (as N)	493.200	216.800
Combined metals	1.110	.....
Total suspended solids	151.700	72.150
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Refinery wet air pollution control.²

²This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

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**BPT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, produced in refinery	
Copper	39.900	21.000
Cyanide (total)	6.090	2.520
Zinc	30.660	12.810
Ammonia (as N)	2,799.000	1,231.000
Combined metals	6.300	.....
Total suspended solids	861.000	409.500
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Gold solvent extraction raffinate and wash water.

**BPT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro- duced by solvent extrac- tion	
Copper	1.197	0.630
Cyanide (total)	0.183	0.076
Zinc	0.920	0.384
Ammonia (as N)	83.980	36.920
Combined metals	0.189	.....
Total suspended solids	25.830	12.290
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Gold spent electrolyte.

**BPT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold produced by electrolysis	
Copper	0.017	0.009
Cyanide (total)	0.003	0.001
Zinc	0.103	0.005
Ammonia (as N)	1.160	0.510
Combined metals	0.003	.....
Total suspended solids	0.357	0.170
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Gold precipitation and filtration.

**BPT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold precipitated	
Copper	8.360	4.400
Cyanide (total)	1.276	0.528
Zinc	6.424	2.684
Ammonia (as N)	586.500	257.800
Combined metals	1.320	.....
Total suspended solids	180.400	85.800
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Platinum precipitation and filtra-
tion.

**BPT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper	9.880	5.200
Cyanide (total)	1.508	0.624
Zinc	7.592	3.172
Ammonia (as N)	693.200	304.700
Combined metals	1.560	.....
Total suspended solids	213.200	101.400
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Palladium precipitation and fil-
tration.

**BPT LIMITATIONS FOR THE SECONDARY
PRECIOUS METALS SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of palladium precipitated	
Copper	11.400	6.000
Cyanide (total)	1.740	0.720
Zinc	8.760	3.660
Ammonia (as N)	799.800	351.600
Combined metals	1.800	.....
Total suspended solids	246.000	117.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Other platinum group metals pre-
cipitation and filtration.

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BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of other platinum group metals precipitated	
Copper	9.880	5.200
Cyanide (total)	1.508	0.624
Zinc	7.592	3.172
Ammonia (as N)	693.200	304.700
Combined metals	1.560	.....
Total suspended solids	213.200	101.400
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(l) Spent solution from PGC salt production.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold contained in PGC product	
Copper	1.710	0.900
Cyanide (total)	0.261	0.108
Zinc	1.314	0.549
Ammonia (as N)	120.000	52.740
Combined metals	0.270	.....
Total suspended solids	36.900	17.550
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Equipment and floor wash.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, produced in refinery	
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Combined metals	0.000	0.000
Total suspended solids	0.000	0.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(n) Preliminary treatment.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of total pre- cious metals produced through this operation	
Copper	95.000	50.000
Cyanide (Total)	14.500	6.000
Zinc	73.000	30.500
Ammonia (as N)	6665.000	2930.000
Combined Metals	15.000	.....
Total Suspended Solids	2050.000	975.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

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§ 421.263 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Furnace wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, incinerated or smelted	
Copper	5.760	2.745
Cyanide (total)	0.900	0.360
Zinc	4.590	1.890
Combined metals	1.350	.....
Ammonia (as N)	599.900	263.700

(b) Raw material granulation.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals in the granulated raw material	
Copper	0.819	0.390